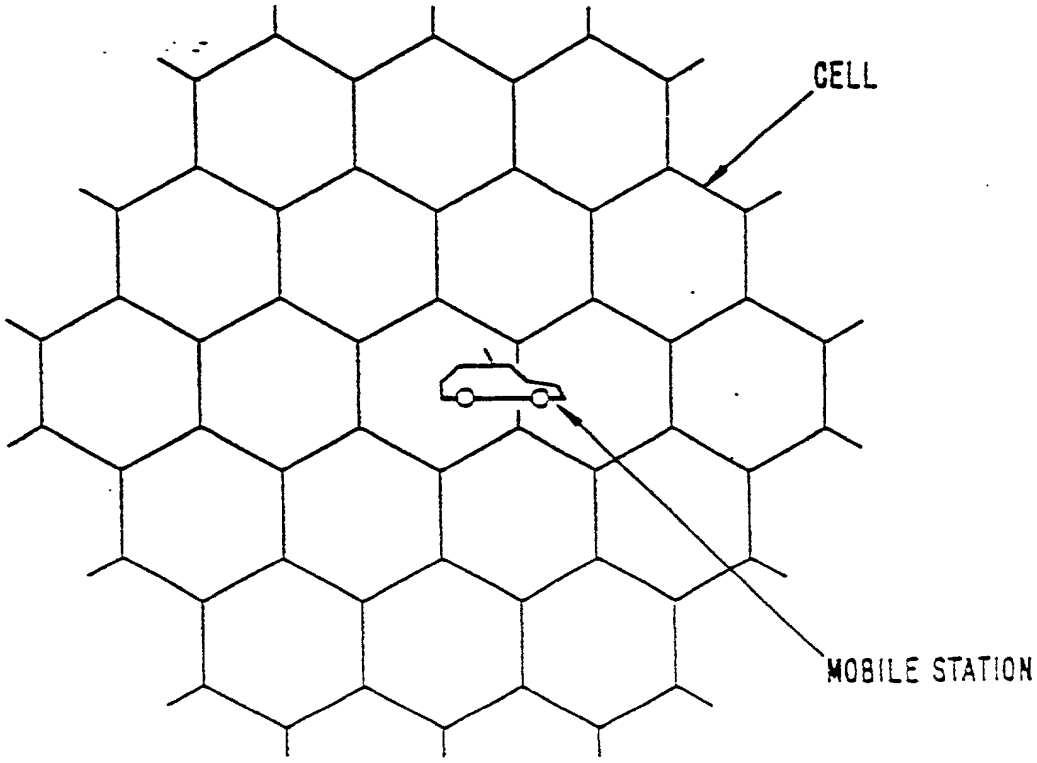

CELL
MOBILE STATION

Fig. 1

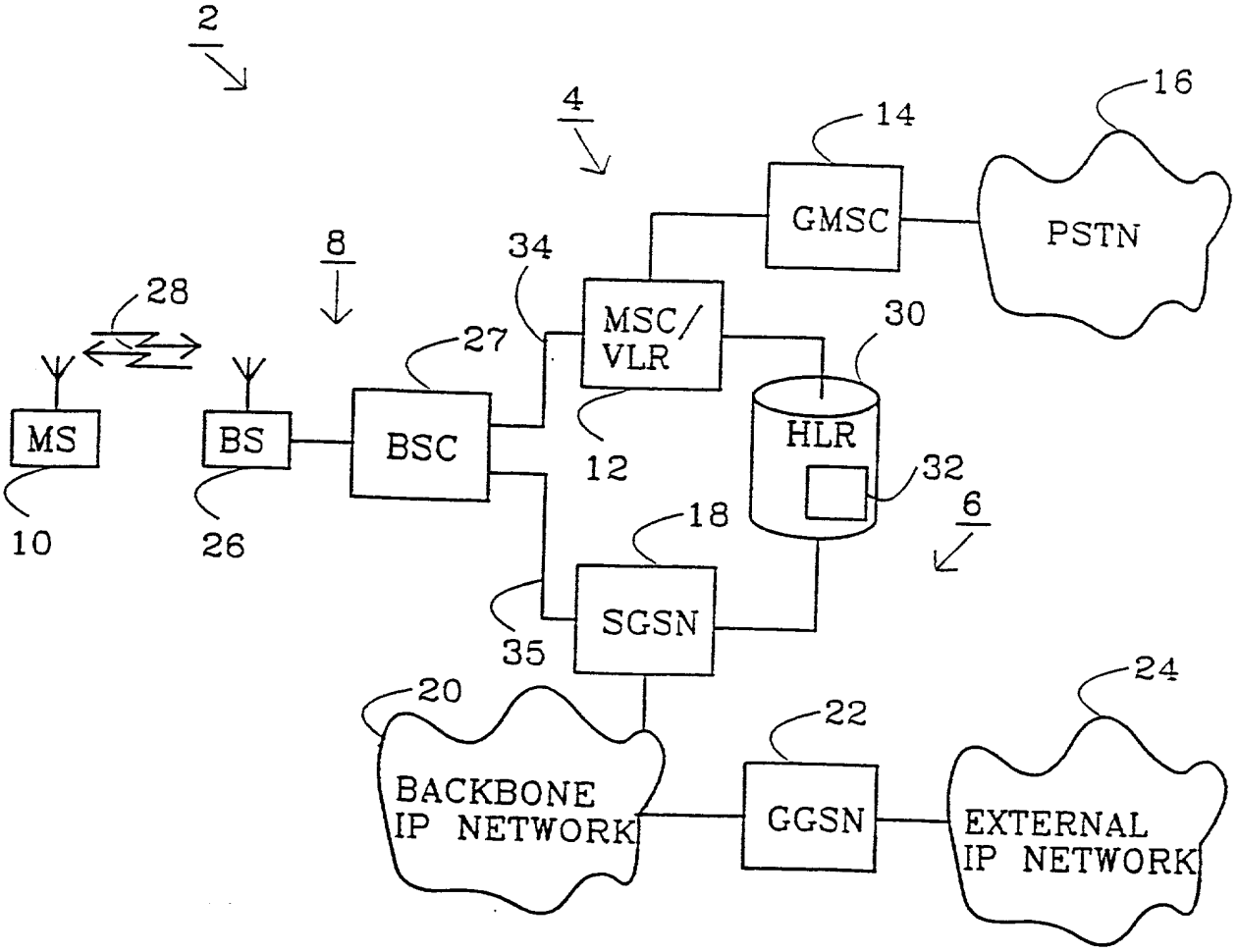

2
4
14
16
GMSC
PSTN
8
34
28
MSC/
VLR
30
27
MS
BS
BSC
HLR
12
32
6
18
10
26
SGSN
35
20
24
22
BACKBONE
IP NETWORK
GGSN
EXTERNAL
IP NETWORK

Fig. 2

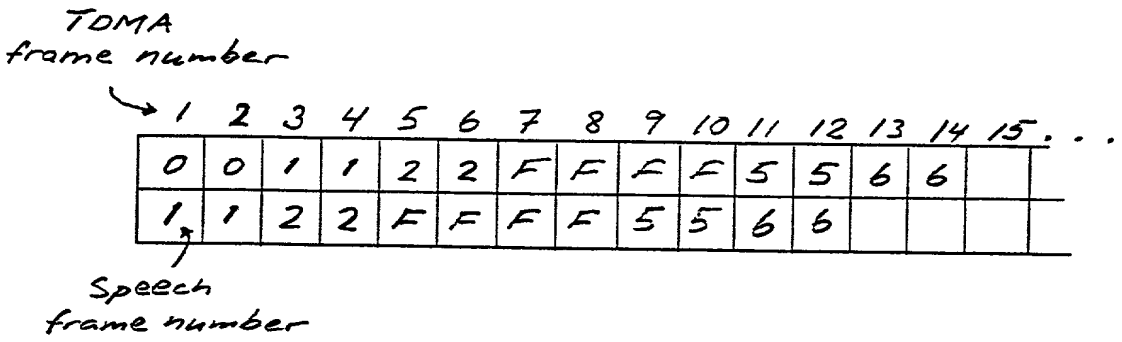
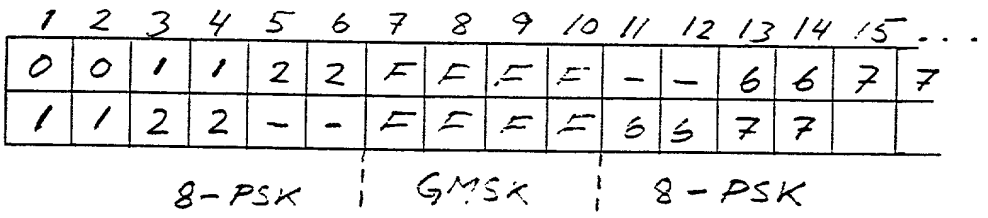

TOMA
frame number
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 . . .
0 0 1 1 2 2 F F F F 5 5 6 6
1 1 2 2 F F F F 5 5 6 6
Speech
frame number

FIG. 3a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0 0 1 1 2 2 F F F F - - 6 6 7 7
1 1 2 2 - - F F F F 6 6 7 7
8-PSK
GMSK
8-PSK

FIG. 3b